

CLAIMS

1. A control apparatus of a vehicle equipped with an electric motor (500) generating drive power, a charging mechanism (400) supplying electric power to said electric motor (500), and a catalyst (104) purifying gases emitted as the drive power of said vehicle is generated, comprising:

5 first control means (600) for running the vehicle by the electric motor (500) supplied with electric power from said charging mechanism (400) in accordance with an operation of a driver;

10 determination means (600) for determining whether said catalyst (104) requires to be warmed up or not;

15 second control means (600) for running the vehicle by the electric motor (500) supplied with electric power from said charging mechanism (400), when it is determined that the catalyst (104) requires to be warmed up; and

prohibition means (600) for prohibiting control by said first control means (600) based on a predetermined condition as to whether execution of control by said second control means (600) is possible or not.

2. The control apparatus of a vehicle according to claim 1, wherein

20 an engine (100) generating drive power is mounted on said vehicle, and said catalyst (104) purifies gases emitted from said engine (100).

3. The control apparatus of a vehicle according to claim 2, wherein

25 said predetermined condition is a condition that a remaining amount of said charging mechanism (400) is smaller than a predetermined remaining amount.

4. The control apparatus of a vehicle according to claim 1, wherein

said predetermined condition is a condition that a remaining amount of said

charging mechanism (400) is smaller than a predetermined remaining amount.

5. The control apparatus of a vehicle according to any of claims 1-4, further comprising

5 information means (600) for informing a driver that control by said first control means (600) is prohibited, when control by said first control means (600) is prohibited.

6. A control apparatus of a vehicle equipped with an electric motor (500) generating drive power, a charging mechanism (400) supplying electric power to said electric motor (500), and a catalyst (104) purifying gases emitted as the drive power of said vehicle is generated, comprising:

10 a first control unit (600) running the vehicle by the electric motor (500) supplied with electric power from said charging mechanism (400) in accordance with an operation of a driver;

15 a determination unit (600) determining whether said catalyst (104) requires to be warmed up or not;

a second control unit (600) running the vehicle by the electric motor (500) supplied with electric power from said charging mechanism (400), when it is determined that the catalyst (104) requires to be warmed up; and

20 a prohibition unit (600) prohibiting control by said first control unit (600) based on a predetermined condition as to whether execution of control by said second control unit (600) is possible or not.

25 7. The control apparatus of a vehicle according to claim 6, wherein an engine (100) generating drive power is mounted on said vehicle, and said catalyst (104) purifies gases emitted from said engine (100).

8. The control apparatus of a vehicle according to claim 7, wherein

said predetermined condition is a condition that a remaining amount of said charging mechanism (400) is smaller than a predetermined remaining amount.

9. The control apparatus of a vehicle according to claim 6, wherein

5 said predetermined condition is a condition that a remaining amount of said charging mechanism (400) is smaller than a predetermined remaining amount.

10. The control apparatus of a vehicle according to any of claims 6-9, further comprising

10 an information unit (600) informing a driver that control by said first control unit (600) is prohibited when control by said first control unit (600) is prohibited.

11. A control method of a vehicle equipped with an electric motor (500) generating drive power, a charging mechanism (400) supplying electric power to said electric motor (500), and a catalyst (104) purifying gases emitted from said vehicle, comprising:

15 a step (S106) of running the vehicle by the electric motor (500) supplied with electric power from said charging mechanism (400) in accordance with an operation of a driver;

20 a step (S114) of determining whether said catalyst (104) requires to be warmed up or not;

25 a step (S115) of running the vehicle by the electric motor (500) supplied with electric power from said charging mechanism (400), when it is determined that the catalyst (104) requires to be warmed up; and

25 a step (S118) of prohibiting control by the step (S106) of running the vehicle in accordance with an operation of a driver based on a predetermined condition as to whether execution of control by the step (S115) of running the vehicle when it is determined that the catalyst (104) requires to be warmed up is possible or not.

12. The control method of a vehicle according to claim 11, wherein an engine (100) generating drive power is mounted on said vehicle, and said catalyst (104) purifies gases emitted from said engine (100).

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13. The control method of a vehicle according to claim 12, wherein said predetermined condition is a condition that a remaining amount of said charging mechanism (400) is smaller than a predetermined remaining amount.

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14. The control method of a vehicle according to claim 11, wherein said predetermined condition is a condition that a remaining amount of said charging mechanism (400) is smaller than a predetermined remaining amount.

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15. The control method of a vehicle according to any of claims 11-14, further comprising

a step (S126) of informing a driver that control by said step (S106) of running the vehicle in accordance with an operation of a driver is prohibited, when control by said step (S106) of running the vehicle in accordance with an operation of a driver is prohibited.

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